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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/884,421	06/20/2001	Un-jin Choi	1293.1218	9921
49455	49455 7590 09/12/2005		EXAMINER	
STEIN, MCEWEN & BUI, LLP			CASTRO, ANGEL A	
1400 EYE ST SUITE 300	REET, NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2653	

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/884,421	CHOI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Angel A. Castro	2653				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Diperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 23 Mi	<u>arch 2005</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims		·				
5)⊠ 6)⊠ 7)⊠	Claim(s) 1,2 and 4-49 is/are pending in the app 4a) Of the above claim(s) 6-33,35-38,42 and 45 Claim(s) 46-49 is/are allowed. Claim(s) 1,2,4,5,34,40,41,43 and 44 is/are rejection(s) 39 is/are objected to. Claim(s) are subject to restriction and/or	is/are withdrawn from consideracted.	tion.				
	on Papers						
	•	_					
	The specification is objected to by the Examine The drawing(s) filed onis/are:_a) _ acce		- - - - -				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correcti		,				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119		·				
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)	4) Interview Summary					
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 3/8/05.	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/23/05 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-2, 4-5, 34, 41, 44 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwaki.

Regarding claims 1, 34 and 44, Iwaki discloses a disk cartridge or housing (figures 4-11) comprising:

a case 12-13 housing an information recording and/or reproduction disk 1 and a shutter 24 which is installed on the case and selectively opened and closed to accomplish an access to the disk by a recording and/or reproduction apparatus, and

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a protrusion group 28 having a plurality of protrusions each protruding therefrom and toward the disk, the protrusion group being formed on an inner wall of at least one of the case and the shutter, and extending linearly radially in parallel from a rotational axis of the disk.

Regarding claim 2, Iwaki discloses that the protrusion group comprises a plurality of protrusions repeating at a predetermined interval in a predetermined pattern (see figure 5).

Regarding claim 4, Iwaki further shows that the protrusion group includes at least two protrusion groups each disposed at an equiangular interval in a direction of rotation of the disk (see figure 4).

Regarding claims 5, 41, Iwaki further discloses that the protrusion group includes protrusion groups arranged in a stepped manner in a radial direction of the disk (see figure 4, where protrusion groups 18, 22, 20 are stepped in a radial direction).

4. Claims 34 and 43 are rejected under 35 U.S.C. 102(b) as being anticipated by Leonard et al.

Regarding claim 34, Leonard et al discloses a disk cartridge (figure 1) having an information recording and/or reproducing disk 4 comprising:

a case enclosing the disk; and

at least one protrusion group 12 having a plurality of protrusions each protruding therefrom and toward the disk, the protrusion group being formed within the case, and being positioned in parallel linearly in the radial direction of the disk (see figure 1).

Regarding claim 43, Leonard et al shows a foreign material filters 10 positioned within the case.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Leonard et al in view of Morikawa (JP 04-159676).

Regarding claim 40, Leonard et al discloses the disk cartridge described above. Leonard et al does not disclose that the plurality of protrusions form a saw tooth shape configuration. Morikawa discloses a disk cartridge (figures 1-2) having a plurality of protrusions with a saw tooth shape configuration. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the disk cartridge of Leonard et al with the protrusions having a saw tooth shape configuration as taught by Morikawa.

The rationale is as follows: one of ordinary skill in the art would have been motivated to provide the disk cartridge of Leonard et al with the protrusions having a saw tooth shape configuration as taught by Morikawa as doing this would increase the cleaning of the disk.

Allowable Subject Matter

- 7. Claim 39 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims 46-49 are allowed.

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Response to Arguments

9. Applicant's arguments with respect to claims 1-2, 4-5, 34, 39-41, 43-44 have been

considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The

examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William R. Korzuch can be reached on 571-272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANGEL CASTRO

Angel Castro, Ph.D.

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